

October 6, 2003



To: Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Fr: George O. Saile, Reg. No. 19,572  
28 Davis Avenue  
Poughkeepsie, N.Y. 12603

Subject:

Serial No. 10/616,724 07/10/03

Tai Min et al.

CONTINUOUS FREE LAYER SPIN VALVE  
SENSOR WITH PATTERNED EXCHANGE  
UNDERLAYER STABILIZATION

Grp. Art Unit:

#### INFORMATION DISCLOSURE STATEMENT

Enclosed is Form PTO-1449, Information Disclosure Citation  
In An Application.


The following Patents and/or Publications are submitted to  
comply with the duty of disclosure under CFR 1.97-1.99 and  
37 CFR 1.56. Copies of each document is included herewith.

#### CERTIFICATE OF MAILING

I hereby certify that this correspondence is being  
deposited with the United States Postal Service as first class  
mail in an envelope addressed to: Commissioner for Patents,  
P.O. Box 1450, Alexandria, VA 22313-1450, on October 10, 2003.

Stephen B. Ackerman, Reg.# 37761

Signature/Date

 10/10/03

U.S. Patent 5,608,593 to Kim et al., "Shaped Spin Valve Type Magnetoresistive Transducer and Method for Fabricating the Same Incorporating Domain Stabilization Technique", describes a spin vlave (SV) with a permanent magnet with a non-magnetic (e.g., Cr) underlayer (Separation layer).

U.S. Patent 5,708,358 to Ravipati, "Spin Valve Magnetoresistive Transducers Having Permanent Magnets", describes thin film layers of ferro-magnetic material separated from each other by a nonmagnetic spacer.

U.S. Patent 5,796,561 to Mauri, "Self-Biased Spin Valve Sensor", discloses a SpinValve (SV) MagnetoResistive (MR) sensor with a free layer separated from a pinned layer by a spacer layer.

U.S. Patent 5,828,527 to Takada et al., "Thin-Film Magnetic Head Having Magnetic Resistance Effect Stabilizing Layer", describes a thin film magnetic head with a magnetoresistance effect stabilizing layer with an underlayer of Ta or oxides of Al or Si, a buffer layer of chromium (Cr), a separation layer of Cr or Ta and a hard magnetic layer.

Sincerely,



Stephen B. Ackerman,  
Reg. No. 37761

